

and 119-124 have been allowed. Claim 71 stands objected to. Claims 91 and 92 have been rejected. Claims 10-18, 47-59, 71, 91, 92, 111-118, and 125 have been deleted from the application.

This amendment corrects several grammatical and clear errors discovered in the specification. Accordingly, Applicants submit that no new matter has been added to the specification by this amendment.

Enclosed with this Response is a marked-up version showing changes made to the specification and claims, if any, by the present amendment, with deletions shown in brackets and additions shown in underline. The enclosed pages are captioned "Version With Markings to Show Changes Made".

I. Election/Restriction

The Examiner has indicated that claims 1-125 in this application are subject to a restriction requirement. The Examiner identified the claims as being drawn to four separate inventions, but indicated that Group IV (claims 60-110, and 119-124) would be included in whichever of the Groups I-III where elected for examination. As confirmation of the provisional election, Applicants expressly elect to prosecute the claims of Group I and Group IV, claims 1-9, 19-46, 60-110, and 120-124, without traverse.

II. Objection under 37 C.F.R. § 1.75(c)

Claim 71 stands objected to under 37 C.F.R. § 1.75(c) for failing to further limit the subject matter of the preceding claim from which it depends. In this regard, claim

71 has been deleted. Accordingly, withdrawal of the objection under 37 C.F.R. § 1.75(c) is respectfully requested.

III. Rejection under 35 U.S.C. § 112

Claims 91 and 92 stand rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention. In particular, claims 91 and 92 have been rejected because they should depend from claim 10 (not claim 8). In this regard, claims 91 and 92 have been deleted. Accordingly, withdrawal of the rejection under 35 U.S.C. § 112, second paragraph, is respectfully requested.

IV. Allowed Subject Matter

The Examiner has indicated that claims 1-9, 19-46, 60-70, 72-90, 93-110, and 119-124 are allowable.

CONCLUSION

In view of the foregoing, Applicants respectfully submit that the subject application is in condition for allowance. Accordingly, reconsideration of the rejections and allowance of all remaining claims at an early date are earnestly solicited.

If the undersigned can be of assistance to the Examiner in addressing issues to advance the application to allowance, please contact the undersigned at the number set forth below.

Respectfully submitted,



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Version With Markings to Show Changes Made

In the Specification

The paragraph set forth on page 14, lines 10-21 has been amended as follows:

-- As used herein, the term "blend" refers to a combination of at least one conducting polymer component with at least one other non-conductive polymer component, wherein the molecular intermixing of the polymer components is insufficient to significantly alter the physical properties of the individual components of the blend.

As used herein, the term "copolymer" refers to a reaction product of at least two polymer components whereby the physical properties of each of the components is significantly altered, and the covalent linkage between the polymer segments allows phase separation to be limited at the molecular level to form a more homogeneous product relative to a polymer blend. The phrase "intrinsically conductive", as used herein, refers to an electrically conductive [thiophene] block copolymer having at least one conducting segment, such as polythiophene, pyrrole, *p*-phenylenevinylene, and the like, attached thereto. --

The paragraph set forth on page 28, lines 8-19 has been amended as follows:

-- Block copolymers of the present invention, as illustrated in Schemes 3 to 5, are intrinsically conductive block copolymers (i.e. are [thiophene] block copolymers having a conducting segment, such as polythiophene, pyrrole, *p*-phenylenevinylene, and the like, attached thereto), such as diblock and triblock copolymers (Schemes 3 and 4,

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respectively) and polyurethane copolymers (Scheme 5). As described in detail herein, these intrinsically conductive block copolymers have been found to exhibit conductivities that range from a low of 10^{-8} S/cm for certain applications to as high as several hundred S/cm or more, but typically range from 10^{-2} S/cm to 150 S/cm. Particular embodiments of the present invention display conductivities ranging from 1 S/cm to 150 S/cm, 5 S/cm to 150 S/cm, and 10 S/cm to 150 S/cm. The block copolymers of the present invention also have excellent film forming and good mechanical properties including elasticity in the polyurethane samples when the weight percentage of HT-PHT is moderate to low. --

The equation on page 35, line 1 has been amended as follows:

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$$\sigma = 1/[r]\rho = 1/(4.53 \cdot R \cdot W) --$$

The paragraph outlining the description of Table 4, on page 36, lines 15-17, has been amended as follow:

-- Table 4. [Charcterization] Characterization Data of the Compositions, Molecular Weights, Molecular Weight Distributions and Electrical Conductivity of Triblock Copolymers Containing Regioregular Head-to-Tail [Poilyhexylthiophene] Polyhexylthiophene (PHT). --

In the Claims:

Claims 10-18, 47-59, 71, 91, 92, 111-118, and 125 have been deleted.

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